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 TI **Calcium silicate** heat-insulating material
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 PA Aica Kogyo Co., Ltd.
 SO Japan. Kokai, 5 pp.
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 CC 58-3 (Cement and Concrete Products)
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 48085622	A2	19731113	JP 1972-17886	19720221
AB	<p>In manufg. Ca silicate heat-insulating material, small particles produced as a by-product in the manuf. of ferrosilicon and contg. silicic acid at high temp. are used as a SiO₂ raw material. The small particles are blended with slaked lime, quicklime, or a mixt. of the 2 so that the CaO/SiO₂ ratio is 0.2-1.5. The blend is mixed well and thoroughly with water contg. 0.20% dispersed solid fibers by kneading or stirring, molded, and treated at satd. steam pressures, 5-25 kg/cm² and 151-223.degree., for 4-30 hr to yield Ca silicate heat-insulating material. Thus, asbestos (8.5 parts) was dispersed in water (153 parts), and mixed with a mixt. of slaked lime (CaO 71%) 17 parts and small particles (SiO₂ 88.0, CaO 2.53, MgO 0.10, Fe₂O₃ 1.36, Al₂O₃ 0.60, C 2.70, ignition loss 3.57, Na 0.57, K 0.23, and SO₃-2 0.32%) 68 parts by kneading or stirring, molded or extruded, treated at satd. steam pressure 5 kg/cm² and 1510 for 30 hr, and hardened. The bulk d. was 0.43 g/cm³, bending strength 18 kg/cm², thermal cond. 0.07-0.08 kcal/m hr .degree.C</p> <p>at 25.degree., impact strength 2.3 kg/cm², and elasticity 4000 kg/cm².</p> <p>ST calcium silicate heat insulating</p> <p>IT Thermal insulators</p>				

silicate